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OM nucleic - nucleic search, using sw model

Run on: February 24, 2003, 10:13:33 ; Search time 95.3285 Seconds
(without alignments)
10583.354 Million cell updates/sec

Title: US-09-922-895-4

Perfect score: 448
Sequence: 1 TAGGTGAGTGCAGAAAAATT.....CCCTGCTATATGAAGCCTT 448

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

N.Geneseq_101002:*

1: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT:*

2: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*

3: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*

4: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT:*

5: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT:*

6: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT:*

7: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT:*

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13: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT:*

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16: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT:*

17: /SID52/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT:*

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22: /SID52/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:*

23: /SID52/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*

24: /SID52/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	448	100.0	1717	24	ABL67066
2	448	100.0	1717	24	AAD25221
3	448	100.0	1717	24	AAD25245
4	448	100.0	1915	18	AAT85162
5	448	100.0	5099	18	AAT93601
6	380.4	84.9	1689	17	AAT31334
7	380.4	84.9	1689	18	AAT58783
8	380.4	84.9	1689	19	AAV07402
9	380.4	84.9	1689	21	AAF21268

10	380.4	84.9	1689	21	AAA35146
11	380.4	84.9	1689	24	ABL40462
12	380.4	84.9	3958	21	AAF21269
13	380.4	84.9	3958	21	AAA35147
14	339.2	75.7	7201	24	ABL32337
15	294.4	65.7	7201	24	ABL32336
16	105	23.4	1201	21	AAF21267
17	105	23.4	1201	21	AAA35145
18	105	23.4	1201	24	ABK84282
19	46.8	10.4	7025	24	ABK40060
20	46.8	10.4	7025	24	AAS63351
21	43	9.6	1348	22	AAH74716
22	42.2	9.4	2865	22	AAS46320
23	42.2	9.4	2865	24	ABN80051
24	42.2	9.4	5269	24	ABL34056
25	42.2	9.4	9905	24	ABL32063
26	42	9.4	18512	24	ABL32976
27	42	9.4	33053	24	ABQ67005
28	41.6	9.3	6078	22	AAS46405
29	41.6	9.3	6078	24	ABL33136
30	41.6	9.3	7445	24	ABK40010
31	41.6	9.3	7445	24	ABL32851
32	41.6	9.3	17294	24	ABL32986
33	41.4	9.2	19459	24	ABL70527
34	41.4	9.2	19459	24	ABK31212
35	41.2	9.2	15548	24	ABL34155
36	41.2	9.2	83391	24	ABQ67093
37	41	9.2	498	24	ABN92804
38	41	9.2	2908	22	AAH54995
39	40.8	9.1	375	22	AAF65616
40	40.8	9.1	379	22	AAF65615
41	40.8	9.1	10467	24	ABL49302
42	40.8	9.1	12601	24	ABL34207
43	40.6	9.1	3524	23	ABL26502
44	40.6	9.1	6621	24	ABL70156
45	40.6	9.1	6621	24	ABK33933

ALIGNMENTS

RESULT 1	
ABL67066	
ID	ABL67066 standard; DNA; 1717 BP.
AC	ABL67066;
DT	15-MAY-2002 (first entry)
DE	
XX	Thyroid cancer related gene sequence SEQ ID NO:5403.
XX	
KW	Human; Cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW	stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW	cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
KW	gene; ds.
OS	Homo sapiens.
XX	
PN	WO200194629-A2.
XX	
PD	13-DEC-2001.
XX	
PF	30-MAY-2001; 2001WO-US10838.
XX	
PR	05-JUN-2000; 2000US-209473P.
PR	05-JUN-2000; 2000US-209531P.
PR	18-SEP-2000; 2000US-233133P.
PR	18-SEP-2000; 2000US-233617P.
PR	20-SEP-2000; 2000US-234009P.
PR	20-SEP-2000; 2000US-234034P.
PR	20-SEP-2000; 2000US-234052P.
PR	22-SEP-2000; 2000US-234509P.
PR	22-SEP-2000; 2000US-234567P.

Human adenosine re
Human C-C chemok
Human low adenosin
Human adenosine re
Human immune syste
Human immune syste
Human low adenosin
Human adenosine re
Human cDNA differe
Human chemically p
Chemically pretrea
Nucleotide sequenc
Tumour suppressor
Human chemically m
Human immune syste
Human immune syste
Human angiotensin
Human immune syste
Tumour suppressor
Human immune syste
Human chemically p
Human immune syste
Human immune syste
Chemically treated
Signal transductio
Human immune syste
Human angiogenesis
Staphylococcus epi
S. epidermidis gen
Novel human polynu
Human polynucleoti
Human immune syste
Drosophila melanog
Chemically treated
Human DNA for stag

PA (GENA-) GENAISSANCE PHARM INC.
XX
XX
PI Choi JY, Kazemi A, Koshy B;
XI
XX WPI: 2002-055681/07.
DR P-PSDB: AAE15320.
XX
PT Isolated polymorphic variants of chemokine (C-C motif) receptor 3
PT (CCR3) gene useful for studying function of CCR3, expressing the CCR3
XX protein and to screen drugs to treat CCR3 activity-related diseases -
XX
XX Example 1: Fig 1; 53pp; English.
XX
XX The invention relates to genetic variants of human chemokine (C-C motif)
CC receptor 3 (CCR3) gene. The invention also relates to compositions and
CC methods for haplotyping and/or genotyping the CCR3 gene in an individual.
CC Polynucleotides of the invention are useful for studying the expression
CC and function of CCR3 and in expressing CCR3 proteins for use in screening
CC candidate drugs to treat diseases related to CCR3 activity. They are also
CC used in gene therapy. The polymorphism and haplotype data is useful for
CC validating whether CCR3 is a suitable target for drugs to treat type IV
CC hypersensitivity reactions and human immunodeficiency virus (HIV)-1,
CC screening for such drugs and reducing bias cells in clinical trials of
CC such drugs. The genotyping method is useful for determining whether an
CC individual has one haplotype or haplotype pairs. The haplotyping method
CC is useful for improving the efficiency and outcome of several steps in
CC the discovery and development of drugs for treating diseases associated
CC with CCR3 activity such as type IV hypersensitivity reactions and HIV-1.
XX The present sequence is human CCR3 gene located on chromosome 3p21.3.
XX
XX Sequence 1717 BP; 434 A; 428 C; 351 G; 504 T; 0 other;

Query Match	Similarity	100.0%	Score	448:	DB	24:	Length	1717:
Best Local	Similarity	100.0%	Pred.	No.	7.8e-105:			
Matches	448:	Conservative	0:	Mismatches	0:	Indels	0:	Gaps
QY	1	TAGGTCAGATGCAGAAAAATTCGCTAAAGAGGAGGACCAAGAGATGAAGCAACACATT	60					
Db	1270	TAGGTCAGATGCAGAAAAATTCGCTAAAGAGGAGGACCAAGAGATGAAGCAACACATT	1329					
QY	61	AAGCCTTCACACCTACCTCTTAACACAGTCCTTCAACCTTCCAGTGCACACTGAAGCTTC	120					
Db	1330	AAGCCTTCACACCTACCTCTTAACACAGTCCTTCAACCTTCCAGTGCACACTGAAGCTTC	1389					
QY	121	TTGAAGACACTGAATATATACACACAGCAGTAGCAGTAGATGCATGACCTTAAGGTCATT	180					
Db	1390	TTGAAGACACTGAATATATACACACAGCAGTAGCAGTAGATGCATGACCTTAAGGTCATT	1449					
QY	181	ACCAAGGCGCAGGGGCGTGGGACGCTACTCATCATCAACCCCTAAAAAGCAGAGCTTTGCT	240					
Db	1450	ACCAAGGCGCAGGGGCGTGGGACGCTACTCATCATCAACCCCTAAAAAGCAGAGCTTTGCT	1509					
QY	241	TCTCTCTCTAAATAGTATTACCTACATTTTATATGACCGCGAATGTAGATAGTTACTATA	300					
Db	1510	TCTCTCTCTAAATAGTATTACCTACATTTTATATGACCGCGAATGTAGATAGTTACTATA	1569					
QY	301	TGCGCCCTACAAAAAGCTAAACCTTTTATATTTTATACATTAACTTCAGCCAGCTATTGA	360					
Db	1570	TGCGCCCTACAAAAAGCTAAACCTTTTATATTTTATACATTAACTTCAGCCAGCTATTGA	1629					
QY	361	TATAATATAAACATTTTTACACACATATACATTAAGTAACTATTTTATTTCTAATGCGCT	420					
Db	1630	TATAATATAAACATTTTTACACACATATACATTAAGTAACTATTTTATTTCTAATGCGCT	1689					
QY	421	AGTTCTTCCCTGCTTAATGAAGCTT	448					
Db	1690	AGTTCTTCCCTGCTTAATGAAGCTT	1717					

RESULT 3	
AAD25245	
ID	AAD25245 standard; DNA; 1717 BP.

XX	AAD25245;	
AC		
XX		
DT	12-MAR-2002	(first entry)
XX		
DE	Human chemokine (C-C motif) receptor 3 (CCR3) gene #2.	
XX		
KW	Human; chemokine (C-C motif) receptor 3; CCR3 gene; haplotyping;	
XX	genotyping; type IV hypersensitivity reaction; HIV-1; gene therapy;	
KW	human immunodeficiency virus 1; polymorphism; chromosome 3p21.3; ds.	
XX		
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	misc_feature	92
FT		/*tag= a
FT		/note= "This degenerate base represents polymorphic
FT		site (PS) 1"
FT		197
FT	misc_feature	/*tag= b
FT		/note= "This degenerate base represents polymorphic
FT		site (PS) 2"
FT		255
FT	misc_feature	/*tag= c
FT		/note= "This degenerate base represents polymorphic
FT		site (PS) 3"
FT		1256
FT	misc_feature	/*tag= d
FT		/note= "This degenerate base represents polymorphic
FT		site (PS) 4"
XX		
PN	WO200187908-A2.	
XX		
PD	22-NOV-2001.	
XX		
XX	18-MAY-2001;	2001WO-US16278.
PF		
XX	18-MAY-2000;	2000US-205191P.
XX		
XX	(GENA-) GENAISSANCE PHARM INC.	
PA		
XX		
PI	Choi YJ, Kazemi A, Koshy B;	
XX		
DR	WPI: 2002-055681/07.	
XX		
XX	Isolated polymorphic variants of chemokine (C-C motif) receptor 3	
PT	(CCR3) gene useful for studying function of CCR3, expressing the CCR3	
PT	protein and to screen drugs to treat CCR3 activity-related diseases -	
XX		
PS	Claim 5, Page 53; 53pp; English.	

CC The invention relates to genetic variants of human chemokine (C-C motif)
CC receptor 3 (CCR3) gene. The invention also relates to compositions and
CC methods for haplotyping and/or genotyping the CCR3 gene in an individual.
CC Polynucleotides of the invention are useful for studying the expression
CC and function of CCR3 and in expressing CCR3 proteins for use in screening
CC candidate drugs to treat diseases related to CCR3 activity. They are also
CC used in gene therapy. The polymorphism and haplotype data is useful for
CC validating whether CCR3 is a suitable target for drugs to treat HIV-1,
CC hypersensitivity reactions and human immunodeficiency virus (HIV)-1,
CC screening for such drugs and reducing bias calls in clinical trials of
CC such drugs. The genotyping method is useful for determining whether an
CC individual has one haplotype or haplotype pairs. The haplotyping method
CC is useful for improving the efficiency and outcome of several steps in
CC the discovery and development of drugs for treating diseases associated
CC with CCR3 activity such as type IV hypersensitivity reactions and HIV-1.
CC The present sequence is human CCR3 gene located on chromosome 3p21.3.
XX
XX Sequence 1717 BP; 434 A; 427 C; 350 G; 502 T; 4 other;

Query Match	100.0%	Score 448;	DB 24;	Length 1717;
Best Local Similarity	100.0%;	Pred. No. 7.8e-105;		
Matches 448;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	1	TAGGTCAAGATGACAGAAAATTTGGCTTAAAGAGGAAGACCAAGAGATGAACCAACACTT	60		
Db	1270	TAGGTCAAGATGACAGAAAATTTGGCTTAAAGAGGAAGACCAAGAGATGAACCAACACTT	1329		
Oy	61	AAGCCTTCACACTCACCTCTCTAAACAGAGTCCTCAAACTTCCAGTGCACAACTGAAGCTC	120		
Db	1330	AAGCCTTCACACTCACCTCTCTAAACAGAGTCCTCAAACTTCCAGTGCACAACTGAAGCTC	1389		
Oy	121	TTTGAAGACACTGAATATTTACACACAGCAGTAGCAGTAGATGCATGTACCTTAAGGTCAAT	180		
Db	1390	TTTGAAGACACTGAATATTTACACACAGCAGTAGCAGTAGATGCATGTACCTTAAGGTCAAT	1449		
Oy	181	ACCAAGAGCCAGGGGGCGGGGACAGCTACATCATCATCAACCTTAAACAGAGCTTTGCT	240		
Db	1450	ACCAAGAGCCAGGGGGCGGGGACAGCTACATCATCATCAACCTTAAACAGAGCTTTGCT	1509		
Oy	241	TCTCTCTCTAAATGAGATTTACTACATTTTAAATGACACCTGAATGTAGATACTTACTATA	300		
Db	1510	TCTCTCTCTAAATGAGATTTACTACATTTTAAATGACACCTGAATGTAGATACTTACTATA	1569		
Oy	301	TGCCGCTACAAAAAGGTAAACCTTTTAAATATTTTAAATACATTTACCTTCAGCCAGCTATTGA	360		
Db	1570	TGCCGCTACAAAAAGGTAAACCTTTTAAATATTTTAAATACATTTACCTTCAGCCAGCTATTGA	1629		
Oy	361	TATATAATAAACATTTTCACACAAATCAATCAATTAACATTTTATTTTCTAATGTGCT	420		
Db	1630	TATATAATAAACATTTTCACACAAATCAATCAATTAACATTTTATTTTCTAATGTGCT	1689		
Oy	421	AGTTCTTTCCCTGCTTAATGAAAAAGCTT	448		
Db	1690	AGTTCTTTCCCTGCTTAATGAAAAAGCTT	1717		
RESULT 4					
AA	AT85162				
ID	AA85162	standard; cDNA; 1915 BP.			
XX	AA85162;				
AC					
XX	14-DEC-1997	(first entry)			
DT					
XX					
DE	Human chemokine receptor 8-2B cDNA.				
XX					
KW	Chemokine receptor 8-2B; atherosclerosis; rheumatoid arthritis;				
KW	tumour; asthma; viral infection; AIDS; inflammation;				
KW	autoimmune disease; therapy; diagnosis; leukocyte trafficking;				
KW	G protein coupled receptor; human; ss.				
XX					
OS	Homo sapiens.				
XX					
FH	Key	Location/Qualifiers			
FT	CDS	362..1429			
FT	/*lag= a				
PN	W09722698-A2.				
XX					
PD	26-JUN-1997.				
XX					
PF	20-DEC-1996;	96WO-US20759.			
XX					
PR	07-JUN-1996;	96US-0661393.			
XX	20-DEC-1995;	95US-0575967.			
XX					
PA	(ICOS-) ICOS CORP.				
XX					
PI	Gray PW, Raport CJ, Schweickart VL;				
XX					
DR	WPI: 1997-341689/31.				
DR	P-PSDB: AAW27124.				
XX					
PT	New nucleic acid encoding chemokine receptors 8-2B and 8Bc - used				
to modulate leukocyte trafficking, e.g. for treatment of					

PT		inflammation, tumours, viral infections, autoimmune diseases, etc.
XX		
PS	Claim 7; Page 48-50; 65pp; English.	
CC	This sequence comprises a full-length cDNA coding for novel human chemokine receptor 88-2B (AAW2712), a G protein coupled receptor that is involved in leukocyte trafficking. The 88-2B cDNA was obtained from a macrophage cDNA library using 88-2B-specific primers. A full-length clone (see AAT916) for chemokine receptor 88C (AAW27123) was also obtained. 88C and 88-2B cDNAs can be used to produce recombinant polypeptides in transformed host cells for use in the treatment of e.g. atherosclerosis, rheumatoid arthritis, tumours, asthma, viral infection, AIDS and inflammatory conditions. Nucleic acid fragments can be used to isolate genomic sequences, to detect alleles of the gene (for diagnosis or in gene therapy), to alter receptor genetics to facilitate identification of modulators and to produce knockout animals, and (antisense forms) to alter/study the genetics and expression of the receptor.	
XX		
SQ	Sequence 1915 BP; 488 A; 470 C; 373 G; 584 T; 0 other;	
	Query Match 100.0%; Score 448; DB 18; Length 1915; Best Local Similarity . 100.0%; Pred. No. 8 le-105;	
	Matches 448; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 TAGGTCAGATGCAGAAAATTGGCTTAAAGAGAAGACCAGAGATGAAGCAACACTT 60 DB 1427 TAGGTGAGATGCAGAAAATTGGCTTAAAGAGAAGACCAGAGATGAAGCAACACTT 1486	
QY	61 AAGCCTTCACACTCACTCTTAAMACAGTCCTTCAAACCTTCCAGTGCAACTGAAGCTC 120 DB 1487 AAGCCTTCACACTCACTCTTAAMACAGTCCTTCAAACCTTCCAGTGCAACTGAAGCTC 1546	
QY	121 TTGAAGACACCTAATAATFACACACAGCACTAGCAGATGATGATGCCCTTAAGGCATT 180 DB 1547 TTGAAGACACCTAATAATFACACACAGCACTAGCAGATGATGATGCCCTTAAGGCATT 1606	
QY	181 ACCACAGCGCAGAGGGGCTGGGACGCTACTCATCATCAACCCCTAAAAAGCAGAGCTTTGCT 240 DB 1607 ACCACAGCGCAGAGGGGCTGGGACGCTACTCATCATCAACCCCTAAAAAGCAGAGCTTTGCT 1666	
QY	241 TCTCTCTCTAAATGAGTTACTTACTATTTTAATGCACTGGAATGTTAGTAGTACTATATA 300 DB 1667 TCTCTCTCTAAATGAGTTACTTACTATTTTAATGCACTGGAATGTTAGTAGTACTATATA 1726	
QY	301 FCCCGGTACAAAAGGTAACAATTTTTATATTATTTTATCTTACTTACCTGACGAGCTATTGA 360 DB 1727 FCCCGGTACAAAAGGTAACAATTTTTATATTATTTTATCTTACTTACCTGACGAGCTATTGA 1786	
QY	361 TATATAATAAACATTTTCCACATATCAATAAGTTACTATTTTATTTTCTATATGTGCTT 420 DB 1787 TATATAATAAACATTTTCCACATATCAATAAGTTACTATTTTATTTTCTATATGTGCTT 1846	
QY	421 AGTTCTTTCCCTGCTTAATGAAGACTT 448 DB 1847 AGTTCTTTCCCTGCTTAATGAAGACTT 1874	
RESULT 5		
ID	AAT93601 standard; cDNA; 5099 BP.	
XX		
AC	AAT93601;	
DT	07-MAY-1998 (first entry)	
DE	Human eosinophil eotaxin receptor CC CKR3 encoding cDNA.	
XX		
KM	Eosinophil eotaxin receptor; CC CKR3; human; treatment; dermatitis; atopic condition; allergic rhinitis; conjunctivitis; bronchial asthma; beta-chemokine receptor; viral infection; ss.	
XX		
OS	Homo sapiens	

XX	Key	Location/Qualifiers
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FT		/tag= a
FT		/note= "5' genomic DNA flanking sequence"
FT	CDS	3587..4654
FT		/tag= b
FT		/product= "human eosinophil eotaxin receptor"
FT	misc_feature	4655..5099
FT		/tag= c
FT		/note= "terminator region"
XX		
PN	M09741154-A1.	
PD	06-NOV-1997.	
XX		
PF	24-APR-1997;	97WO-US06568.
XX		
PR	17-JAN-1997;	97GB-0000894.
PR	26-APR-1996;	96US-0016158.
PR	26-APR-1996;	96US-0017113.
XX		
PA	(MERI) MERCK & CO INC.	
XX		
PI	Daugherty BL, Demartino JA, Siciliano SJ, Springer MS;	
XX		
DR	WPI: 1997-549685/50.	
DR	P-PSDB: AAMJ31850.	
XX		
PT	New isolated human eosinophil eotaxin receptor - used to develop	
PT	products for treating and preventing atopic conditions e.g. allergic	
PT	rinitis, dermatitis, conjunctivitis and bronchial asthma	
XX		
PS	Claims 12, 13, 14: Pages 16-20; 51pp: English.	
XX		
CC	This cDNA encodes a human eosinophil eotaxin receptor. This 5099 base	
CC	pair sequence comprises a 1065 base pair open reading frame encoding a	
CC	355 amino acid eosinophil eotaxin receptor protein, flanked by a 5'	
CC	genomic DNA sequence and a 3' terminator region. This novel eosinophil	
CC	eotaxin receptor is a human beta-chemokine receptor designated CC CKR3.	
CC	Agents which bind to this eosinophil eotaxin receptor can be used for	
CC	the treatment and prevention of atopic conditions such as allergic	
CC	rinitis, dermatitis, conjunctivitis and bronchial asthma. Agents which	
CC	block this eosinophil eotaxin receptor can be used to prevent viral	
CC	infection in healthy individuals and slow or halt viral progression	
CC	in infected patients.	
SO		
XO	Sequence 5099 BP: 1388 A; 1171 C; 1013 G; 1527 T; 0 other:	
	Query Match	100.0%; Score 448; DB 18; Length 5099;
	Best Local Similarity	100.0%; Pred. No. 1,1e-104;
	Matches 448; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
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DB	4652 TAGGTGAGTGCAGAAATTTGGCTTAAGAAGAACCAAGAGATGAAGCAACACTT	4711
OY	61 AAGCCTTCACACTCACCTCTTAACAAGCTCTTCAAAGTCCAGTGCACTGAAGCTC	120
DB	4712 AAGCCTTCACACTCACCTCTTAACAAGCTCTTCAAAGTCCAGTGCACTGAAGCTC	4771
OY	121 TTGAAGACACTAATAATTATCACACAGCAGTAGACAGTAGATGATGATGCCCTTAAGTCATT	180
DB	4772 TTGAAGACACTAATAATTATCACACAGCAGTAGACAGTAGATGATGATGCCCTTAAGTCATT	4831
OY	181 ACCACAGGCCAAGGGCGCTGGGACGCTACTCATCATCAACCCTAAAAAGCAGAGCTTTGCT	240
DB	4832 ACCACAGGCCAAGGGCGCTGGGACGCTACTCATCATCAACCCTAAAAAGCAGAGCTTTGCT	4891
OY	241 TCTGCTCTCAAAAATGAGTAACTACATTTAATTTAATGACCGGAAATGTTAGTTAATTA	300
DB	4892 TCTGCTCTCAAAAATGAGTAACTACATTTAATTTAATGACCGGAAATGTTAGTTAATTA	4951

Oy	301	TCGCGCTACAAAGGATTTTATATTTATATACATTACCTGACGCGATTGTA	360
Db	4952	TGCGGCTACAAAAGGATTTTATATTTATATACATTACCTGACGCGATTGTA	5011
Oy	361	TATATAATAAACATTTTCACACATACATTAAGTTAATTTTCTAATGTGCT	420
Db	5012	TATATAATTAACATTTTCACACATACATTAAGTTAATTTTCTAATGTGCT	5072
Oy	421	AGTTCTTTCCCTGCTTAATGAAAGCTT	448
Db	5072	AGTTCTTTCCCTGCTTAATGAAAGCTT	5099
	RESULT 6		
	AAT31334		
ID	AAT31334	standard; DNA; 1689 BP.	
XX	AC		
XX	AAT31334;		
XX	AT		
DT	15-NOV-1996	(first entry)	
XX	DE		
XX	CC-chemokine receptor 3 genomic DNA.		
XX	CC-chemokine receptor 3; CRP-3; Eos-L2; inhibitor; antisense;		
KW	antlinflammatory; eosinophil; ds.		
XX			
OS	Homo sapiens.		
XX			
FH	Key	Location/Qualifiers	
FT	CDS	181..1248	
FT		/*tag= a	
FT	variation	1007..1008	
FT		/*tag= b	
FT		/*note= "CR3-3 genomic clone has CG at positions	
FT		1007-1008, coding for threonine (ACG) at	
FT		position 276; a cDNA clone has GC at	
FT		these positions, coding for serine (AGC)."	
FT	misc_difference 1291		
FT		/*tag= C	
FT		/*note= "base n at position 1291 is not identified	
FT		in the specification"	
XX			
PN	W09622371-A2.		
XX			
PD	25-JUL-1996.		
XX			
PF	19-JAN-1996;	96WO-US00608.	
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PR	19-JAN-1995;	95US-0375199.	
XX			
PA	(BGHM) BRIGHAM & WOMENS HOSPITAL.		
PA	(CHIL-) CHILDRENS MEDICAL CENT.		
PA	(LEUK-) LEUKOSITE INC.		
XX			
PI	Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW;		
PI	Qin S;		
XX			
XX	WPI; 1996-354528/35.		
DR	P-PSDB; AAM03376.		
XX			
PT	Mammalian chemokine receptor-3 and related nucleic acids - useful to		
PT	identify receptor inhibitors to treat inflammatory disease, e.g.		
PT	autoimmune disorders, certain cancers, etc.		
XX			
PS	Claim 1; Page 109; 153pp; English.		
XX			
CC	A genomic DNA clone (TJ31334) codes for a novel receptor (W03376),		
CC	designated Eos L2 or C-C chemokine receptor 3 (CCR-3), involved		
CC	in leukocyte migration associated with inflammation. It was		
CC	isolated from a human genomic library in EMBL3 SP7/T7 vector by		
CC	screening with a PCR fragment generated from eosinophil cDNA		
CC	using degenerate primers (see also TJ31337-44). A CCR-3 cDNA		
CC	clone (TJ31335) was also isolated, and a consensus sequence is		

XX Human: adenosine receptor; low adenosine antisense oligonucleotide;
 KM phosphocholate; impaired respiration; inflammation; allergy;
 KM allergic disease; bronchoconstriction; inhibitor; anti-inflammatory;
 KM antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway;
 KM lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
 KM respiratory distress syndrome; pain; cystic fibrosis; emphysema;
 KM pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
 KM cancer; leukemia; lymphoma; carcinoma; metastasis; ss.
 XX Homo sapiens.
 OS
 XX WO200009525-A2.
 XX
 PD 24-FEB-2000.
 XX
 PF 03-AUG-1999; 99WO-US17712.
 XX
 PR 03-AUG-1998; 98US-0095212.
 XX
 PA (UYEC-) UNIV EAST CAROLINA.
 XX
 PI Nyce JW;
 XX
 DR WPI: 2000-205971/18.
 XX
 PT New antisense oligonucleotides useful for treating e.g. pulmonary
 PT vasoconstriction, inflammation, allergies, asthma, hypertension,
 PT bronchitis, emphysema, respiratory distress syndrome, ischemia or
 PT cancers -
 PS
 XX Disclosure: Page 1103; 1343pp; English.
 XX
 CC The present invention describes a new composition comprising an
 CC antisense oligonucleotide (ON) with low adenosine (up to 15%), which
 CC targets nucleic acids involved in bronchoconstriction, allergies, and/or
 CC inflammation. The ON can have anti-inflammatory, antiallergic,
 CC antiasthmatic, cytostatic and analgesic activities. The compositions are
 CC useful for the treatment of diseases associated with inflammation,
 CC impaired airways, including lung disease and diseases whose secondary
 CC effects afflict the lungs of a subject. They can be used for treating
 CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies,
 CC asthma, impaired respiration, respiratory distress syndrome, pain, cystic
 CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive
 CC pulmonary disease (COPD), and cancers such as leukemias, lymphomas,
 CC carcinomas, and cancers which may metastasize to the lungs, including
 CC breast and prostate cancer. The reduction of the adenosine content of
 CC the ONs reduces side effects. The A-containing ONs break down with the
 CC release of deoxyadenosine which activates adenosine receptors causing
 CC bronchoconstriction and inflammation. AAA3213 to AAA5312 represent the
 CC nucleotide sequences given in the sequence listing from the present
 CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last
 CC 185 sequences are also called SEQ ID NO:1 to 185, but the sequences
 CC differ from the previously named sequences. SEQ ID NO:11 to 1680
 CC (AAA32323 to AAA33992) are specifically claimed ONs from the present
 CC invention. N.B. Sequences given in the disclosure of the present
 CC invention do not match up with their corresponding SEQ ID NO: sequences
 CC given in the sequence listing.
 XX
 SO Sequence 1689 BP: 430 A: 416 C: 345 G: 497 T: 1 other:
 Query Match 84.9%; Score 380.4; DB 21: Length 1689;
 Best Local Similarity 98.4%; Pred. No. 1.5e-87;
 Matches 436; Conservative 0; Mismatches 2; Indels 5; Gaps 5;

OY 126 GACACTGAATATACACAGCAGTAGCATGTACCTAAGTCAATTACAC 185
 ||||||||||||||||||||||||||||||||||||||||||||||||
 DB 1370 GACACTGAATATACACAGCAGTAGCATGTACCTAAGTCAATTACAC 1429
 OY 186 AGCCACAGGGGCGGCGAGGCTCATCTCAACCTAAAAAGCAGAGCTTGTCT 245
 ||||||||||||||||||||||||||||||||||||||||||||||||
 DB 1430 AGGCCA-GGGCGGGCAGGCTCATCTCAACCTAAAAAGCAGAGCTTGTCT 1487
 OY 246 CTCTAAATAGCTTACCTTCAATTTAATGCACCTGAATGTAGTACTATATGCCG 305
 ||||||||||||||||||||||||||||||||||||||||||||||||
 DB 1488 CTCTAAATAGCTTACCTTCAATTTAATGCACCTGAATGTAGTACTATATGCCG 1547
 OY 306 CTACAAAAGGTAACCTTTTATATTTATACATTACCTGACGAGCTATTGATATA 365
 ||||||||||||||||||||||||||||||||||||||||||||||||
 DB 1548 CTACAAAAGGTAACCTTTTATATTTATACATTACCTGACGAGCTATTGATATA 1606
 OY 366 ATAAACATTTTCACACATATACATTAAGTATTTTATTTTCTAATGCGCTTATTC 425
 ||||||||||||||||||||||||||||||||||||||||||||||||
 DB 1607 ATAAACATTTTCACACATATACATTAAGTATTTTATTTTCTAATGCGCTTATTC 1666
 OY 426 TTTCCCTGCTTATGAAAGCTT 448
 ||||||||||||||||||||||||||||||||||||||||||||||||
 DB 1667 TTTCCCTGCTTATGAAAGCTT 1689

RESULT 11
 ABL40462
 ID ABL40462 standard: cDNA; 1689 BP.
 XX
 AC ABL40462;
 XX
 DT 10-JUN-2002 (first entry)
 XX
 DE Human C-C chemokine receptor 3 (CCR3) protein encoding cDNA.
 XX
 KM Mucosae-associated epithelial chemokine; MEC; C-C chemokine receptor;
 KM CCR3; CCR10; anti-inflammatory; cytostatic; immunomodulator; anti-viral;
 KM antibacterial; chemokine; human; gene; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 181..1248
 FT /tag= a
 FT /product= "CCR3"
 XX
 FN WO200214532-A2.
 XX
 PD 21-FEB-2002.
 XX
 PF 15-AUG-2001; 2001WO-US25734.
 XX
 PR 15-AUG-2000; 2000US-0638914.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 PA (STRD) UNIV LELAND STANFORD JUNIOR.
 XX
 PI Butcher EC, Kunkel EJ, Pan J, Soler-Ferran D;
 XX
 DR WPI: 2002-269204/31.
 DR P-PSDB: ABB07733.
 XX
 PT Identifying modulators of mucosae-associated epithelial chemokine (MEC)
 PT receptors 3 or 10 (CCR3/10), useful for treating inflammatory diseases,
 PT comprises detecting formation of MEC-CCR3/10 complex or modulation of a
 PT MEC-induced response -
 XX
 XX Example 2; Fig 4A-B; 92pp; English.
 CC The invention relates to identifying agents that inhibit or promote the
 CC binding of a mammalian mucosae-associated epithelial chemokine (MEC) to
 CC a mammalian C-C chemokine receptor 3 (CCR3) or 10 (CCR10). The method
 CC involves: (a) detecting or measuring the formation of a complex between

QY	241	TCCTGCTCAAAATGAGTTCACACATTTTAATGACCCGAGTGTAGTGGTACCTTA	300
QY	6337	TTTTTTTTTAAATGACTTTTATATATTTAAATGATTTGAATGTTAGTATGTTATTA	6396
QY	301	TGCGCTACAAAAAGSTAAACTTTTATATTTTATACATTAACCTTCAGCCAGCATTTGA	360
Db	6397	TGTCGTATATAAAAAGSTAAATTTTTTATATTTTATATATTAATTTTGGTAGTATGA	6456
QY	361	TATATAATTAACAATTTTCACACAATACATTAAGTTAACTATTTTATTTCTAATGCTCT	420
Db	6457	TATATAATTAACAATATTTTATATATATTAATTAAGTTAATTAATTTTATTTTAAATGCTGTT	6516
QY	421	AGTCTCTCCCTGCTTAATAAAGCTT	448
Db	6517	AGTTTATTTTATGTAATCAAAAGCTT	6544

Search completed: February 24, 2003, 14:34:13
Job time : 132.328 secs

